INTERNATIONAL SEARCH REPORT

Internal Application No Pt., JB2004/004263

A. CLASS	IFICATION OF SUBJECT MATTER F42B1/032 F42B3/28				
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According t	to International Patent Classification (IPC) or to both national classificati	ion and IPC			
D SIELDS	SEARCHED				
Minimum d I PC 7	locumentation searched (classification system followed by classification F42B	n symbols)			
Documenta	ation searched other than minimum documentation to the extent that su	ch documents are included in the fields sea	arched		
	data base consulted during the international search (name of data base nternal, WPI Data, PAJ	and, where pracilical, search terms used)			
C DOCUM	MENTS CONSIDERED TO BE RELEVANT				
Category "	The state of the relevant appropriate of the relevant	vant passages	Relevant to claim No.		
Х	US 6 371 219 B1 (COLLINS WILLIAM 16 April 2002 (2002-04-16) column 2, line 42 - column 3, lin figure 2	1-21,27, 28			
X	EP 1 348 683 A (ALLIANT TECHSYSTE 1 October 2003 (2003-10-01) paragraphs [0002], [0013], [001 [0022]; figure la	1-21,27, 28			
X	EP 1 241 433 A (HALLIBURTON ENERGY SERVICES, INC) 18 September 2002 (2002-09-18) paragraph [0021]; figure 2	1-4, 10-21, 27,28			
	II A Links continueling of how C	Y Patent family members are listed	n annex		
	orther documents are listed in the continuation of box C.	X Patent family members are listed			
"A" clocus	categories of cited documents : ment defining the general state of the art which is not sidered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention			
"E" earlle (iling "L" docum	er document but published on or after the international g date nent which may throw doubts on priority claim(s) or the crited to establish the publication date of another	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention			
citat "O" docum othe	lion or other special reason (as specified) iment reterring to an oral disclosure, use, exhibition or er means	cannot be considered to involve an in document is combined with one or me ments, such combination being obvio in the art.	ventive step when the ore other such docu-		
"P" docui	ment published prior to the international filling date but r than the priority date claimed	"8" document member of the same patent			
Date of th	ne actual completion of the international search	Date of mailing of the international sea	•		
	9 May 2005	1.1 AUG. 2	005		
Name and	d mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer			
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Lostetter, Y			

INTERNATIONAL SEARCH REPORT

national application No. PCT/GB2004/004263

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)						
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:						
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:						
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:						
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).	,					
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)						
This International Searching Authority found multiple inventions in this international application, as follows:						
see additional sheet						
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.						
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.	(
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:						
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-21, 27, 28						
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.						
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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-21,27,28

a component, a shaped charge perforator comprising such component, a perforator gun comprising such shaped charge and a method of improving fluid outflow from a well borehole by means of such a perforator gun.

2. claim: 22

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a compound for use in manufacture of components for shaped charge perforators.

3. claims: 23-26

a manufacturing method for a component for a shaped charge perforator.

4. claims: 29-31

a liner for a shaped charge perforator.

INTERNATIONAL SEARCH REPORT

irmation on patent family members

International Application No
PC B2004/004263

Patent document cited in search report		Publication date	_	Patent family member(s)		Publication date
US 6371219	B1	16-04-2002	NONE			
EP 1348683	A	01-10-2003	US EP JP	2004020397 / 1348683 / 2004002167 /	A2	05-02-2004 01-10-2003 08-01-2004
EP 1241433	Α	18-09-2002	US CA EP WO	2002129724 / 2376565 / 1241433 / 02075099 /	41 42	19-09-2002 16-09-2002 18-09-2002 26-09-2002